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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=10; day=23; hr=12; min=42; sec=44; ms=929;
]

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Application No: 10673098

Version No: 2.0

Input Set:

Output Set:

Started: 2009-10-06 16:41:26.276

Finished: 2009-10-06 16:41:35.823

Elapsed: 0 hr(s) 0 min(s) 9 sec(s) 547 ms

Total Warnings: 124

Total Errors: 0

No. of SeqIDs Defined: 212

Actual SeqID Count: 212

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (12)
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Input Set:

Output Set:

Started: 2009-10-06 16:41:26.276
Finished: 2009-10-06 16:41:35.823
Elapsed: 0 hr(s) 0 min(s) 9 sec(s) 547 ms
Total Warnings: 124
Total Errors: 0
No. of SeqIDs Defined: 212
Actual SeqID Count: 212

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
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W 402	Undefined organism found in <213> in SEQ ID (119)
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SEQUENCE LISTING

<110> O'Donnell, Michael E.
Yurieva, Olga

<120> ENZYMES DERIVED FROM THERMOPHILIC ORGANISMS THAT
FUNCTION AS A CHROMOSOMAL REPLICASE, PREPARATION AND
USE THEREOF

<130> 22221/1030

<140> 10673098

<141> 2003-09-26

<150> 09/716,964

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<150> 09/642,218

<151> 2000-08-18

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<151> 1998-04-08

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<160> 212

<170> PatentIn Ver. 2.1

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<213> Thermus thermophilus

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<211> 529

<212> PRT

<213> *Thermus thermophilus*

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Lys Thr Thr Thr Ala Arg Leu Leu Ala Met Ala Val Gly Cys Gln Gly
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Gly Ala His Pro Asp Val Val Asp Ile Asp Ala Ala Ser Asn Asn Ser
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Thr Ile Leu Ser Arg Thr Gln His Phe Arg Phe Arg Arg Leu Thr Glu
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Glu Glu Ile Ala Phe Lys Leu Arg Arg Ile Leu Glu Ala Val Gly Arg
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Pro	Arg	Ser	Leu	Val	Ser	Gly	Leu	Leu	Glu	Val	Phe	Arg	Glu	Gly	Leu	275	280	285
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Gly	Glu	Lys	Lys	Ser	Leu	Ser	Pro	Arg	Pro	Arg	Pro	Ala	Pro	Pro	Pro	450	455	460
Glu	Ala	Pro	Ala	Pro	Pro	Gly	Pro	Pro	Glu	Glu	Glu	Val	Glu	Ala	Glu	465	470	475 480
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<212> DNA

<213> Thermus thermophilus

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<212> PRT

<213> Thermus thermophilus

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Gly	Ala	His	Pro	Asp	Val	Val	Asp	Ile	Asp	Ala	Ala	Ser	Asn	Asn	Ser	
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<213> *Thermus thermophilus*

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 50 55 60
 Glu Asp Pro Pro Cys Gly Val Cys Pro His Cys Gln Ala Val Gln Arg
 65 70 75 80
 Gly Ala His Pro Asp Val Val Asp Ile Asp Ala Ala Ser Asn Asn Ser
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 100 105 110
 Ser Ala Pro Arg Lys Val Phe Ile Leu Asp Glu Ala His Met Leu Ser
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Ala	Leu	Arg	Asp	Ala	Glu	Ser	Leu	Leu	Glu	Arg	Phe	Leu	Leu	Leu	Glu	210	215	220	
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Pro	Arg	Ser	Leu	Val	Ser	Gly	Leu	Leu	Glu	Val	Phe	Arg	Glu	Gly	Leu	275	280	285	
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Pro	Glu	Val	Arg	Glu	Gly	Gln	Leu	Cys	Leu	Ala	Phe	Pro	Glu	Asp	Lys	405	410	415	
Ala	Phe	His	Tyr	Arg	Lys	Ala	Ser	Glu	Gln	Lys	Val	Arg	Leu	Leu	Pro	420	425	430	

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Gly Glu Lys Lys Lys Ala
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<212> DNA

<213> Artificial Sequence

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